Enduring Quality
Biobased Solutions for High-Performance Coatings
Sustainable Chemistry

Kraton is the world’s largest producer of pine chemicals and specialty resins based on crude tall oil (CTO). With more than 90 years of bio-refining experience, our pine chemistry enables numerous industries to replace non-renewable resources with high-performance, biobased alternatives. CTO is a natural material with a much lower carbon footprint compared to other known vegetable alternatives. Controlled by chain of custody, the feedstock offers other key benefits:

- Sourced from responsibly-managed forests
- Steady supply all year round
- Not edible and does not compete for land with food crops
- Not genetically modified (non-GMO)
- Does not require land-use change
- Can be Halal and Kosher certified

Biobased Certification

SYLFAT™ TOFA are certified in the Biobased Content Certification Scheme, which validates a product’s biomass based on the European standard EN 16785-1. This certification enables us to transparently and credibly communicate about our materials to customers and help them improve their product’s sustainability performance. It will also help the market to differentiate between a broad range of products.

Our commitment to sustainability earned us a Gold Rating from EcoVadis. This award recognizes our company-wide sustainability efforts, which enable us to help meet market demands, advance the bioeconomy, and promote a more sustainable future through collaboration in the value chain.

Life Cycle Assessments

Kraton life cycle assessments (LCA) on key coating products offer data-driven insights that can advance future innovation processes by identifying opportunities to enhance overall product sustainability. This includes:

- switching to a different raw material;
- introducing a manufacturing process change;
- altering a specific transportation method/route; or
- recapturing and selling a byproduct.

LCA provides opportunities to collaborate more closely with suppliers, supply chain partners and customers around their products. In particular, it enables our customers to identify ways to decrease carbon footprint through the use of our raw materials. These advantages provide high-performance value while helping customers reduce environmental impact in their supply chains, manufacturing processes and end-use product cycle.
Outstanding Coating Performance

Coatings with Kraton solutions are found in many everyday products, helping to provide long-term protection for enduring quality all year round. We offer a broad portfolio of performance chemicals that offer formulators and end users a wide range of innovative technologies. Kraton is the only pine chemical provider with a global footprint. Our vertical integration in tall oil and dimer fatty acids processing makes us uniquely qualified to deliver high product consistency and performance for coating applications.

Our SYLFAT™ Tall Oil Fatty Acids (TOFA) are used in different binder systems and surfactants to achieve high-performance coating systems. TOFA delivers short hardness development time, color stability and fast air drying properties for excellent product consistency and long-lasting aesthetics. Derived from our CTO feedstock, the biobased content is 100 percent. Our TOFA-based alkyd binders generate up to 10 times lower carbon dioxide emissions compared to vegetable oil-based alternatives due to its no land-use change impact. This allows the coatings industry to decrease carbon footprint, enhance performance and enable the development of more sustainable coatings without compromising on quality.

Features and Benefits
- Outstanding Surface Properties
- Fast Hardness Development
- High Initial Gloss
- Good Gloss Retention
- Fast Drying
- High Productivity
- Low Cycle Time
- Low Carbon Footprint
- 100% Biobased

Applications
- Architectural
- Decorative
- Automotive
- Transportation
- Industrial Metal & Wood
- Marine & Yacht

Binder Technologies
- Short, Medium & Long Oil Alkyds
- Epoxies and Curing Agents
- Alkyd Polyurethane Modified Binders
- Alkyd Dispersions & Alkyd Emulsions
- Polyamides
**Broad Innovation Portfolio**

Kraton offers the coating industry a broad portfolio of biobased products to choose from. From enhancing corrosion resistance to improving aesthetics, our solutions can help meet performance needs while meeting sustainability demands.

**DIMER ACIDS**
UNIDYME™ products are dimerized fatty acids characterized by high composition consistency and constant high quality. They are designed for the manufacture of polyamide curing agents.

**DISTILLED TALL OIL**
SYLVATAL™ products contain 10-40 percent rosin acids. They combine the advantages of fatty acids and rosin acids – making them an ideal raw material for functional products. SYLVATAL products also help provide hardness improvement for indoor varnishes with high gloss and excellent water and alkali resistance.

**FATTY ACIDS**
SYLFAT and CENTURY™ fatty acids are useful in a wide range of industrial applications. These products have a unique degree of unsaturation and fatty acid distribution related to their region of origin. SYLFAT TOFA provides a combination of light color, good color stability and air drying properties. They are used in different binder systems and surfactants to achieve high-performance coating systems. CENTURY products can offer a variety of unique properties including low levels of unsaturation and excellent oxidative stability.

**POLYAMIDE**
UNI-REZ™ polyamides offer a combination of properties including excellent adhesion, pigment wetting and gloss, fast solvent release, resistance to water, chemicals and deep freeze conditions. Thixotropic polyamides provide non-drip performance, ease of use, polar-solvent resistance and increased rheology control for alkyd binder formulators.

**TALL OIL ROSIN**
SYLVAROS™ rosin and disproportionated rosins can be used for the manufacture of emulsifiers for the polymerization process and pigment coating. It can also be an anchoring agent, improving adhesive properties.

**MALEIC MODIFIED RESIN**
SYLVACOTE™ 7003 resin is a maleic modified glycerin ester of tall oil rosin used in nitrocellulose coatings for hardness and durability purposes. The material can be found in wood finishing for cabinets and lacquer sealers.
About Kraton Corporation

Kraton Corporation (NYSE “KRA”) is a leading global producer of styrenic block copolymers, specialty polymers and high-value performance products derived from pine wood pulping co-products. Kraton’s polymers are used in a wide range of applications, including adhesives, coatings, consumer and personal care products, sealants and lubricants, and medical, packaging, automotive, paving, roofing and footwear products. As the largest global provider in the pine chemicals industry, the company’s pine-based specialty products are sold into adhesive, road and construction and tire markets, and it produces and sells a broad range of performance chemicals into markets that include fuel additives, oilfield chemicals, coatings, metalworking fluids and lubricants, inks, flavors and fragrances and mining. Kraton offers its products to a diverse customer base in over 70 countries worldwide.